

HARSH NARAYAN SINGH

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Software Developer | Backend Developer | Data Science Enthusiast

Objective

Software Engineer focused on backend and distributed systems; built Django REST microservices in internship; Azure (Blob, App Service) and CI/CD pipelines; solved 250+ DSA problems ; reduced P95 API latency by ~20%; seeking Microsoft SDE campus role to build scalable services.

Education

B.Tech in Computer Science Engineering, Ajay Kumar Garg Engineering College, Ghaziabad (2022 - 2026)

CGPA: 7.5 / 10

Class XII (CBSE) – Maharishi Vidya Mandir, Fatehpur – 2021 – **88%**

Class X (CBSE) – Maharishi Vidya Mandir, Fatehpur – 2019 – **94%**

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Cloud Computing .

Technical Skills

Languages: C++ (primary), Python, Java (basic)

Backend: Django REST Framework, Flask

Data/Storage: MySQL, MongoDB, SQLite

Systems/Tools: Linux, Docker, Git, GitHub Actions, Postman, VS Code

Cloud: Azure Blob Storage, Azure App Service, CI/CD

Concepts: OOP, REST, caching, pagination, JWT auth, unit testing, CI/CD, design patterns

Internship

• Software Development Engineer Intern — V4K Entertainment Pvt. Ltd. | New Delhi | Jun 2025 – Aug 2025

Owned 6 Django REST endpoints with request validation and JWT auth; improved reliability across VR content workflows.

Optimized ORM queries and added caching to reduce API response time by ~20% and boost throughput under load tests. Set up CI checks (pytest, flake8) and containerized services with Docker, enabling consistent staging deploys.

• Data Science Intern — CodSoft | Nov 2024 – Dec 2024

Built ML pipelines for Titanic/IMDb/Iris using scikit-learn with preprocessing, feature engineering, and evaluation.

Deployed inference using Flask with REST endpoints for real-time predictions.

Projects

• [AI Code Review Assistant](#) — Python, Django REST, OpenAI API

Analyzes source code for complexity, best practices, and common bugs; provides actionable feedback via REST API.

Integrated model-backed checks to flag high cyclomatic complexity and style violations for faster reviews.

• Cloud File Sharing Platform (OnGoing)— Django, Azure Blob, Azure App Service, CI/CD

Secure file sharing with RBAC, presigned URLs, and encryption at rest; deployed on Azure App Service.

Implemented upload/download APIs, pagination, and audit logs; automated deploys via GitHub Actions.

• [Team Task Management System](#) — Django REST, React

Real-time collaboration with role-based permissions and progress tracking across teams.

Notifications and REST APIs for task lifecycle to improve team visibility.

DSA & Competitive Programming

• Solve 250+ problems across on [LeetCode](#), HackerRank and [codechef](#)(3 ⭐).

• Comfortable with topics: Arrays, Strings, Linked list, Sorting Algorithms

Certifications

• MongoDB Basics – Udemy – Nov 2024

• Python Programming – Infosys Springboard – Apr 2025

• Fundamentals of ML (scikit-learn) – Infosys Springboard – Apr 2025

• Microsoft Azure Fundamentals (AZ-900) – Expected Dec 2025

Key Strengths

• Strong problem-solving and analytical skills

• Proficient in Data Structures & Algorithms

• Quick learner and collaborative team player